Montana Comprehensive Assessment System (MontCAS, Phase 2)

Criterion-Referenced Test (CRT)

COMMON CONSTRUCTED-RESPONSE ITEM RELEASE
MATHEMATICS, GRADE 4

2008





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Mathematics

Session 1 (No Calculator)

You may NOT use a calculator during this part of the test.

Write your answer in the space provided for it in your Student Response Booklet. Show all of your work.

- 25. Haley made a secret-number guessing game. She picked a number **less** than 23 and wrote three clues about her number.
 - **Clue 1:** My number is even.
 - a. List all the numbers that Haley's secret number could be.
 - Clue 2: I say my number when I start at 4 and skip-count by 4s.
 - b. List all the numbers that Haley's secret number could be.
 - Clue 3: My number is a multiple of 3.
 - c. What is Haley's secret number?
 - d. Make another secret-number guessing game.
 - Write three clues Haley could use to find your number.
 - The game must have only one correct answer.
 - Be sure to write the answer.

Scoring Guide

Score	Description
4	4 points
3	$3-3\frac{1}{2}$ points
2	$2-2\frac{1}{2}$ points
1	$\frac{1}{2} - 1\frac{1}{2}$ points
0	Response is incorrect or contains some correct work that is irrelevant to the skill or concept being measured.
Blank	No response.

Scoring Notes

Part c:

1 point

Part a: 1 point writes correct numbers: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, or 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22 OR $\frac{1}{2}$ point correctly lists at least 5 numbers OR correctly lists even numbers and 1 or more even number above 22 1 point Part b: writes correct numbers: 4, 8, 12, 16, 20 OR $\frac{1}{2}$ point correctly lists at least 3 numbers OR $\frac{1}{2}$ point for correct answers that exceed 23

writes correct number, 12

Part d: 1 point for 3 correct clues and answer

OR

 $\frac{1}{2}$ point for 3 correct clues with no answer

Note: Do not penalize students for more than 3 correct clues.

Sample Response:

Part d: Clue 1: My number is less than 20.

Clue 2: I say my number when I skip-count by 5s.

Clue 3: My number is a multiple of 3.

My number is 15.

Cluel: my number is under 10.

Liulander 10.

Liulander 10.

Cluel: my number is an even number is an even number clue 3: my number is a multipule of 3.

A. 2,4,6,8,10,12,14,10 numbers her secret	umber could be.
B.4,8,12,16, and 2	, ~
O. Cluel: It is less +	han 20.
D. Clue! It is less to clue 2: I say my num when I count by 2's. clue 3: It is a multiple of 9.	e e
The answer is 18.	

Clue 2: 4,8,12,16,20 12 is the Clue 3: 3,6,9 12,15,18,21 number.

Letitra made a secret number less then 8 100 K at the clues to figur it out

It's an even number

It's a multipul of 3 and it is a multipul of d.

Sample 2

(A) 2,4,6,8,19,12,14,16,18,20,22,

(B) 4,8,(2)16,20,

(C) Haley's secret number is (12).

(D)

(Clue 1. My number is odd.

(Clue 2.) You can find it when counting by 3's.

(Clue 3. It is a multipile of 3.

Sample 1

4.2,4.6,8,10,12,14,16,18,20,22,24 B.4,12,20, Clueilimy # is not C.12 Glara: it is not a multiple of 3 Clue 3: I say it were I count by 2 b 1

a. 2,4,6,8,10, 12,14, 16,18,20,22 6.8,10,16,20 C. Haleys secret number is 12. Clue 1: My number is odd. secret number could be. Clue 2: I say my number when I start at 5 and skip-count by 5s. blist all the number could be. Clue 3: My number is a Multiple of 3 C. What is my sec-ret number? My secret number is 15.

Score Point 1

Sample 1

A) 7, 11, 12, 16, 13.
(b) 4.8,12,16,20,73,27
(C) 8
de you count by 2's to get too my number twice
What is my number
my number is 6

Cluel-22 a) 22, 20, 18, 16, 14, 12, 10, 8, 6, 4, 2
(a) 22.20.18, 16,14,14,14, 38, 32, 36, 40, (b) 4,8,12,16,20,24, 28, 32, 36, 40, (c) I think Haley's secret number is8
• My number is odd • My number is odd • It is one of these numbers
my number is not a my number is not a multiple of 10. Can you guess what my number is?
answer = 11

Sample 3



